

DLA Logistics R&D Parts Management Project

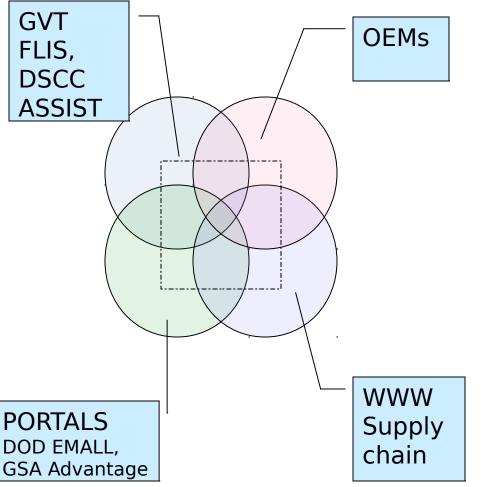
DLA J-33 Presentation to the PSMC 21 April 2010

Agenda

- Introduction
 - Motivation
 - Team
 - Approach
- What we've seen so far . . .
 - Data landscape
 - Suppliers
 - Weapon systems
- Next steps

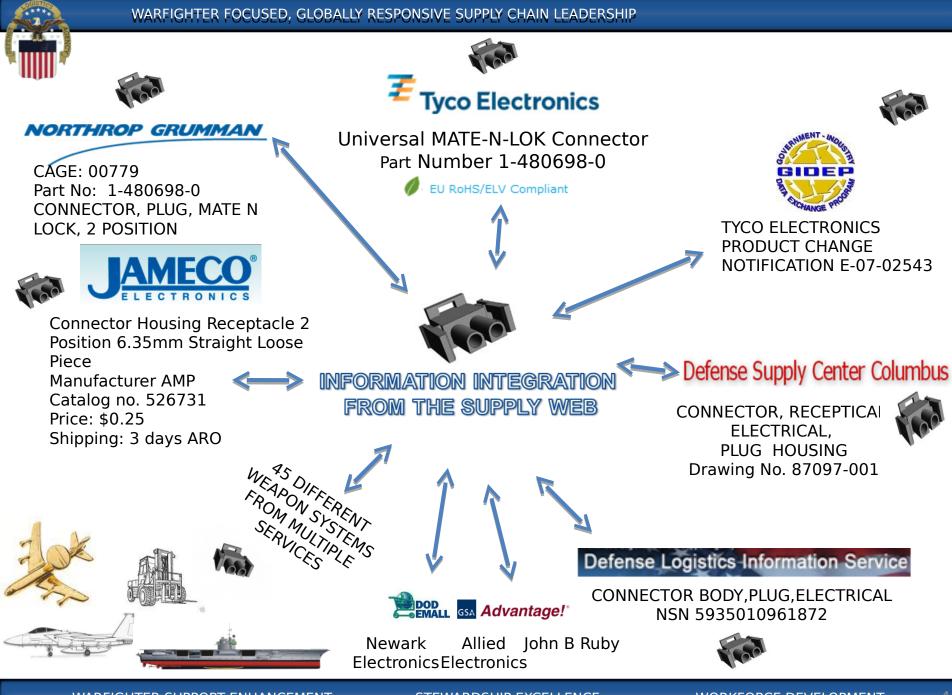


Parts Management Project Motivation



Can we demonstrate a practical application of technologies recently developed for the DLA Log R&D program?

- Can we share information about common commodity parts and standardize more efficiently?
- Can we build a cross supply chain network that extends to the Services, DLA, and defense industry/weapon system integrators?



WARFIGHTER SUPPORT ENHANCEMENT

STEWARDSHIP EXCELLENCE

WORKFORCE DEVELOPMENT





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Approach

- Identify a commodity initially connectors and will select another commodity in the next phase
- Characterize that commodity by analyzing recently procured items
- Identify major suppliers, specifications and standards
- Use Focused Crawlers and ontology based technologies to acquire, extract and standardize attributes from OEMs, Government, Suppliers, DSCC Drawings, Specs and standards, etc.
- Develop a common parts database with information sharing rules and restrictions. Measure the ability to reduce duplicate NSNs, inventory, etc
- Develop a Business Case by quantifying opportunities for cost savings through reduction of identical and similar items



What we've seen so far

. . .

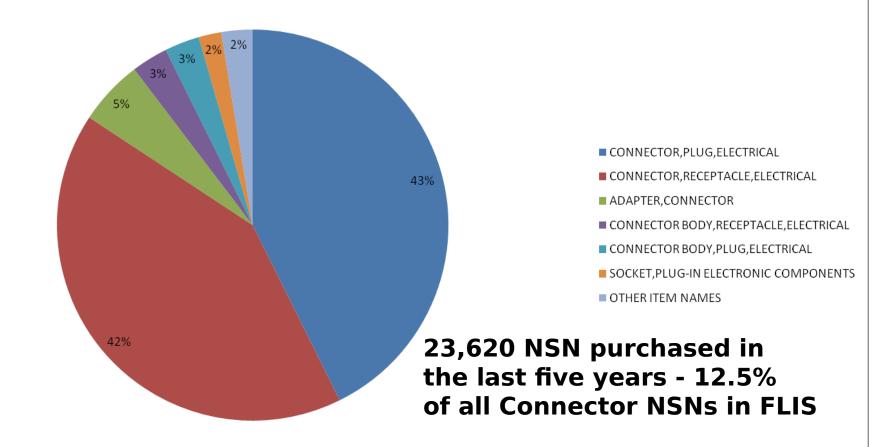
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Connectors Defined in FLIS Item

INC Item Name Names FIIG FIIG Title					
INC		FIIG	FIIG Title		
15091	ADAPTER,CONNECTOR	A039B0	CONNECTOR,		
ELECTRICAL					
38437	CONNECTOR BODY, MODULAR PLUG, ELECTRICAL	A039B0	CONNECTOR,		
ELECTRICAL					
38438	CONNECTOR BODY, MODULAR RECEPTACLE,	A039B0	CONNECTOR,		
ELECTRICAL					
	ELECTRICAL				
61924	CONNECTOR BODY, PLUG, ELECTRICAL	A039B0	CONNECTOR,		
ELECTRICAL					
61925	CONNECTOR BODY, RECEPTACLE, ELECTRICAL	A039B0	CONNECTOR,		
ELECTRICAL					
68174	CONNECTOR, BULKHEAD, ELECTRICAL	A039B0	CONNECTOR,		
ELECTRICAL					
38439	CONNECTOR, MODULAR PLUG, ELECTRICAL	A039B0	CONNECTOR,		
ELECTRICAL					
38440	CONNECTOR, MODULAR RECEPTACLE, ELECTRICAL	A039B0	CONNECTOR,		
ELECTRICAL					
01938	CONNECTOR, PLUG, ELECTRICAL	A039B0	CONNECTOR,		
ELECTRICAL					
15093	CONNECTOR, RECEPTACLE, ELECTRICAL	A039B0	CONNECTOR,		
ELECTRICAL					
38441	INSERT MODULE, ELECTRICAL CONNECTOR	A039B0	CONNECTOR,		
ELECTRICAL					

NSN by Item Name Purchased in last 5 Years





Suppliers associated to NSN Connectors

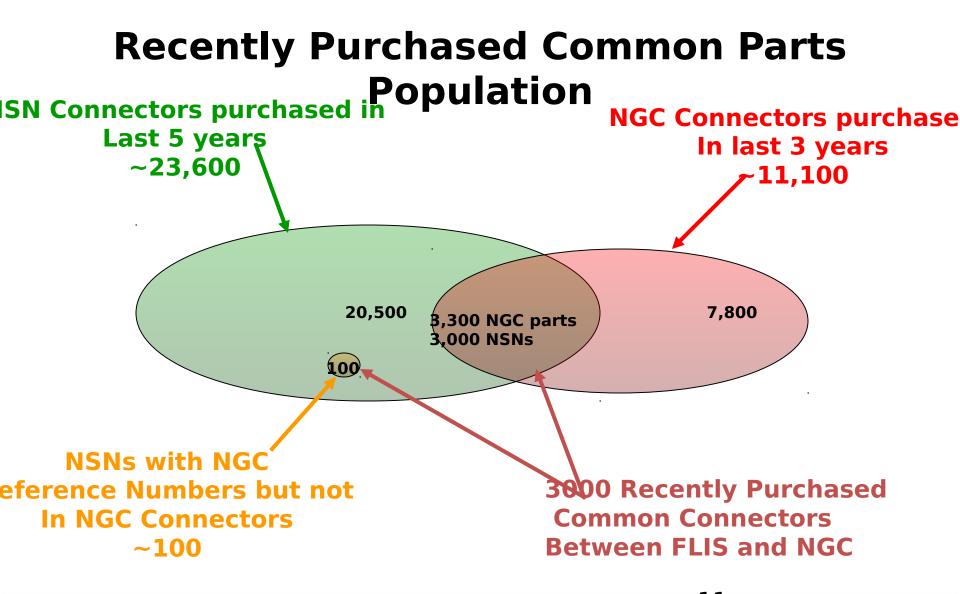
28 Suppliers are listed as sources for 1000 or more NSN Connectors Over 6500 Suppliers are listed as sources for at least one NSN connector

Many of the top suppliers are Prime Contractors and not the actual contractors and not the actual

Count of NSNs	Supplier	Count of NSNs	Supplier
22,424	AMPHENOL*	2,671	CONTINENTAL CONNECTOR
14,265	ITT*	2,520	L-3 COMMUNICATIONS
11,158	TYCO ELECTRONICS*	2,316	CINCH MANUFACTURING*
9,546	NORTHROP GRUMMAN DEFENSE MISSION	1,916	HEWLETT-PACKARD
SYSTEMS		1,820	GENERAL-ELECTRIC
9,298	RAYTHEON	1,638	AUTOMATIC CONNECTOR
7,210	LOCKHEED MARTIN	1,557	ITT-CANNON RF PRODUCTS
6072	WINCHESTER ELECTRONICS*	1,552	KYOCERA
4,200	BOEING	1,429	AGILENT TECHNOLOGIES
4,160	BAE SYSTEMS	1,400	ROCKWELL-COLLINS
3,179	AIRBORN INTERCONNECT*	1,371	MOLEX*
2,976	DEUTSCH ENGINEERED CONNECTING DEVICES*	1,363	FCI*
2,933	HONEYWELL INTERNATIONAL	1,110	US COMPONENTS
2,813	ROCKWELL-COLLINS DIV GOVERNMENT	1,040	DELPHI CONNECTION SYSTEMS
SYSTEMS		-	
2,729	SOURIAU*		

SOURIAU* * These suppliers are also major suppliers for NGC Connectors





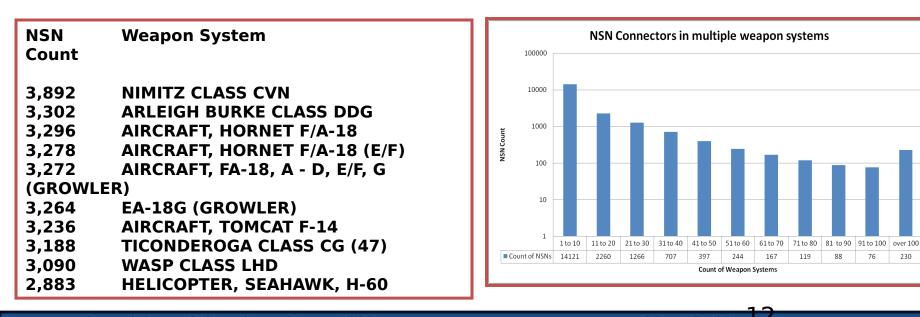


Common Parts Weapon System Distribution

- 31,000 Connector NSNs are common with NGC connectors
- 11,000 of these NSNs have no weapon system association in FLIS*
- The balance of these NSNs have one or more weapon system associations

Counts of NSN connectors for top 10 weapon systems

Counts of NSN connectors found on multiple weapon systems



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Next Steps

- Identify a second OEM & Commodity
- Develop common parts database and provide role based access to connector data with a design that will be easily expandable to additional part domains
- Field Commodity data by 1 June 2010
- Establish business case



Business Case Development

LMI will develop a BCA based on the benefit of information sharing for part selection, cataloging, inventory, procurement, and other processes.

- The BCA will address projected benefits for DLA and OEMs to mitigate NSN proliferation through the sharing of technical characteristics and source data for common commodity parts,
- Implications of the data sharing for improving the Federal Catalog,
- The opportunity to improve part selection practices through the implementation of a MIL-STD-3018 process.



Potential Benefits

For the OEM:

- Identification of duplicate parts to be combined.
- Identification of technically similar parts for parts management action (potential consolidation
- Identification of preferred parts for future design..

For DLA ICPs:

- Identification of additional sources for parts, particularly for sole source parts
- Approval of those sources
- Identification of potential duplicate items.

For DLIS:

- Addition of item characteristic data to the catalog
- Potential to consolidate/cancel NSNs.
- Addition of additional sources to the FLIS.
- Update of FIIGs.



